

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



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Quality Assurance Project Plan Review

(NOTE: This QAPP was reviewed in accordance with the October 1998 EPA Requirements For Quality Assurance Project Plans (QA/R-5).

Project:

<u>DEFICIENCIES</u> (Note: Please see attached pages for a description of the categories of deficiencies checked on the table below)

Title & Approval Sheet	Analytical Methods
Table of Contents	Quality Control
Distribution List	Instrument/Equipment Testing
Project/Task Organization	Instrument Calibration & Frequency
Problem Definition/Background	Inspection/Acceptance for Supplies
Project/Task Description	Data Acquisition (Non-Direct)
Data Quality Objectives	Data Management
Special Training/Certification	Assessments & Response Actions
Documentation & Records	Reports to Management
Sampling Process Design	Data Review, Validation & Verification
Sampling Method	Validation and Verification Methods
Sample Handling	Reconciliation with User Requirements

CONCLUSION / RECOMMENDATION FOR THIS QAPP

	Accentable	Unacceptable: requires minor	Unacceptable: requires major revisions
	Acceptable	Unacceptable; requires minor	Onacceptable, requires major revisions
		revisions	

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CODES USED IN FOLLOWING TABLE

IA: Included and acceptable

NI: Not included

IU: Included and unacceptable

NA: Not applicable

	IA	NI	IU	NA	Page	Comments
A1. Title & Approval sheet						
Title						
Organization's name						
Dated signature & phone number of project manager						
Dated signature & phone number of QA officer						
Other signatures & phone numbers as needed						
A2. Table of Contents						
A3. Distribution List						
A4. Project/Task Organization						
Identifies key individuals & responsibilities (data users, decision makers, project QA Manager, Subcontractors, etc.)						
Organization chart shows lines of authority & reporting responsibilities						
A5. Problem Definition/ Background						
Clearly states problem or decision to be resolved						
Historical & background information						
A6. Project/Task Description						
Lists measurements to be made during the course of the project.						
Cites applicable technical, regulatory, or program- specific quality standards, criteria, or objectives						
Notes special personnel or equipment requirements						
Describe the assessment techniques needed for the project						
Provides work schedule						
Notes required project & QA records/reports						
A7. Quality Objectives & Criteria for Measurement Data						
States project objectives & limits, both qualitatively & quantitatively						
States & characterizes measurement quality objectives as to applicable action levels or criteria						
A8. Special Training Requirements/Certification						
ADHS licensed labs/HAZWOPER training/DOT requirements for moving hazardous materials offsite						

A9. Documentation & Records			
List information & records to be included in data report to ADEQ			
States requested lab turnaround time			
Gives retention time & location for records & reports			
B1. Sampling Process Design (Experimental Design)			
Types & numbers of samples required			
Sampling network design & rationale for design			
Sampling locations & frequency of sampling			
Sample matrices			
Classification of each measurement parameter as either critical or needed for information only			
Validation study information, for non-standard situations			
B2. Sampling Method Requirements			
Identifies sample collection and preparation procedures.			
Describe decontamination procedures and materials			
Explain how investigatively derived wastes (IDW) will be handled.			
Describe sampling equipment, preservation, and holding time requirements.			
Identifies individuals responsible for corrective action			
B3. Sample Handling & Custody Requirements			
Notes sample handling requirements			
Notes chain of custody (COC) procedures			
B4. Analytical Methods Requirements			
Identifies analytical methods to be followed (with all options) & required equipment			
Provides validation information for non-standard methods			
Identifies individuals responsible for corrective action			
B5. Quality Control (QC) Requirements			
Identifies QC procedures & frequency for each sampling, analysis, or measurement technique, as well as associated acceptance criteria & corrective action.			
References procedures used to calculate QC statistics (precision, bias & accuracy)			
B6. Instrument/Equipment Testing, Inspection & Maintenance Requirements			
Describes <u>field equipment</u> needing calibration & state frequency for such calibration (balances, thermometers, pumps, etc).			

Identifies acceptance testing of field sampling & measurement systems			
Notes availability & location of spare parts			
B7. Instrument Calibration & Frequency			
Identifies <u>field instrumentation</u> needing calibration & frequency for such calibration (pH, specific conductivity meters, PID, XRF, etc).			
Notes required calibration standards and/or equipment			
Cites calibration records & manner traceable to equipment			
B8. Inspection/Acceptance Requirements for Supplies & Consumables			
States acceptance criteria for supplies & consumable			
Notes responsible individuals			
B9. Data Acquisition Requirements for Non-Direct Measurements			
Identifies type of data needed from non-measurement sources (e.g. computer data bases & literature files) along with acceptance criteria for their use			
Describes any limitations of such data			
B10. Data Management			
Describes standard record keeping & data storage & retrieval requirements			
Checklist of standard forms attached to QAPP			
Describes data handling equipment & procedures used to process, compile, and analyze data (e.g., required computer hardware & software)			
C1. Assessments & Response Actions			
Lists required number, frequency & type of assessments, with approximate date & names of responsible personnel			
Identifies individuals responsible for corrective action			
C2. Reports to Management			
Identifies the preparer, recipients and frequency of reports			
Identifies the contents and distribution of reports.			
Project Status			
Results of performance evaluations (PE) & audits			
Results of periodic data quality assessments			
Any significant QA problems			
D1. Data Review, Validation, & Verification			
States criteria for accepting, rejecting, or qualifying data			

D2. Validation & Verification Methods			
Describes process for data validation & verification			
Identifies issue resolution procedure & responsible individuals			
Identifies method for conveying these results to data users			
D3. Reconciliation with User Requirements			
Describes process for reconciling with DQOs & reporting limitations on use of data			